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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/800,910	03/08/2001	Mitsuru Higuchi	OGA-181-USAP 5533		
7:	590 08/22/2003				
Ronald R. Snider Snider & Associates P.O. Box 27613			EXAMINER NATNAEL, PAULOS M		
			2614		
			DATE MAILED: 08/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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1	_	Application No.		Applicant(s)					
		09/800,910		HIGUCHI ET AL.	$\mathcal{L}(\mathcal{E})$				
	Office Action Summary	Examiner		Art Unit					
		Paulos M. Natna	ما	2614					
	The MAILING DATE of this communication ap	_1			ress				
Period for Reply									
THE N - Exter after - If the - If NO - Failur - Any n	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing digital patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how ly within the statutory min will apply and will expire e, cause the application t	ever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).	nmunication.				
1)	Responsive to communication(s) filed on	·							
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	nis action is non-f	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)🖂	Claim(s) 1-4 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)									
6)⊠	·								
7) Claim(s) is/are objected to.									
8)□									
Applicati	on Papers								
9) 🗌 -	The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
`Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)⊠ All b)□ Some * c)□ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
	cknowledgment is made of a claim for domest				application).				
a)	The translation of the foreign language process	ovisional applicati	on has been rec	eived.					
Attachment		•	30						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		(PTO-413) Paper No(s Patent Application (PTO					
I.S. Patent and Tr PTO-326 (Rev		ction Summary		Part of Paper No. 4					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Takebe, U.S. Pat. No. 6,356,314.

Considering claim 1, the claimed

- a) a circuit for generating an interlaced scanning signal for display of an image on a TV monitor from an image signal obtained by an image pickup device is met by the CCD camera 2, Fig.11;
- b) and a progressive resolution conversion circuit for generating a non-interlaced scanning signal with higher vertical resolution than a frame signal for a TV monitor by reading and overlapping same field signals for interlaced scanning, is met by the frame memory 20, Fig. 11;

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Considering claim 2, the claimed wherein said progressive resolution conversion circuit can generate a non-interlaced scanning signal for one frame by reading one field signal three times or more, is met by the disclosure that "the address pointer is incremented once for every N times there is a read dot clock signal CKr, so the same data is outputted for N times in a row for the read dot clock signal CKr. As a result each lines is magnified by N times in the horizontal direction... (col. 25, line 24+)

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Takebe**, U.S. Pat. No. **6,356,314.**

Considering claim 3, the claimed

- b) a frame memory for storing a frame signal for non-interlaced scanning, is met by Frame memory 20, Fig.11;
- c) a write/read control circuit for reading twice a field signal in said field memory at a double speed of a write speed for the signal, temporarily writing the signal in said frame

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memory, and controlling the frame signal in said frame memory such that the frame signal can be read twice at a double speed of a write speed of the frame signal, is met by the Controller 10 and Read Clock Generation circuit 5/Write Clock Generation circuit 11, Fig.11;

Except for;

a) a field memory for storing a field signal for interlaced scanning;

Regarding a), Takebe doesn't specifically disclose a field memory. Takebe discloses frame memories. However, Takebe does process both by field and frame and it is well known that two fields equal a frame, it would have been obvious to the skilled in the art at the time the invention was made to provide a field memory to store temporarily the odd-numbered and even-numbered fields that are processed before the signals are sent to the frame memory 20 for resolution conversion processing, in order for the frame memory 20 to perform an efficient operation instead of being burdened with both storing and resolution conversion processing.

Considering claim 4, the claimed b) a write/read control circuit for controlling the field signal in said field memory such that the signal can be read n times at a speed n (integer) times as fast as a write speed for the signal, is met by the Controller 10 and Read Clock Generation circuit 5/Write Clock Generation circuit 11, Fig.11;

Except for;

a) field memory for storing a field signal for interlaced scanning;

Regarding a), see rejection of claim 3 (a).

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hebert et al., U.S. Pat. No. 6,101,038 discloses infrared audio/video interface for head-mounted display.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 6:30am -3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Paulos Natnael June 13, 2003 SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600